# **FILIPPO PRENCIPE**

**Medicinal Chemist** 

Department of Chemical and Pharmaceutical Sciences University of Trieste, via Licio Giorgieri 1 34127 Trieste, Italy Born on 29/06/86 in S. Giovanni Rotondo (FG), Italy prenzfp@gmail.com Address: via San Francesco D'Assisi 62, 34133 Trieste, Italy PH: +39 3926675225 https://www.linkedin.com/in/filippo-prencipe-76b429148/

## PROFILE

Synthetic chemist in the field of Medicinal Chemistry, enthusiastic and self-motivated, during my previous experience I've developed expertise in synthetic organic chemistry and in the process of drug discovery focusing on the design, synthesis, purification and characterization of libraries of small organic molecules with potential therapeutic application. Mature team worker and adaptable to all challenging situations, competitive, I always seek to achieve high standards in whatever work I undertake

## **RESEARCH/SCIENTIFIC EXPERIENCE**

Jan 2022 – present 🔹	University of Trieste, Department of Chemical and Pharmaceutical Sciences
	Research Fellow Rtd-A
	Design and synthesis of novel glucosylceramide synthase inhibitors for the treatment of Gaucher disease
	<ul> <li>Structure-based and ligand-based in silico approach and screening of an ADME based molecules database for identification of hits compounds</li> </ul>
	<ul> <li>Hits selection, design synthesis and characterization of library of hits related small molecules</li> <li>Teaching role (Principles of asymmetric synthesis, practical organic synthesis laboratory supervisor, Chemistry of clinical analysis)</li> </ul>
	Supervision of master students and PhD students
July 2020 – Nov 2021 💿	University of Naples, Department of Pharmacy, Naples, Italy
	Research Associate Synthesis of short peptides containing non-conventional amino acids, design and synthesis of organic and metalorganic small molecules interacting with Selenoproteins
	<ul> <li>Solid-phase manual synthesis of short peptides containing Seleno-cysteine as modified non- conventional amino acid</li> </ul>
	<ul> <li>Synthesis, purification and full spectroscopic characterization of Aurum (I) and Silver (I) N-heterocyclic carbenes (NHC) complexes targeting specific Selenoproteins (Thioredoxin reductase)</li> </ul>
July 2018 – Feb 2020 💿	Royal College of Surgeons in Ireland, Department of Chemistry, Dublin, Ireland
	Postdoctoral researcher
	Design and synthesis of small molecule Fcylla receptor antagonists and lead optimization study
	Design and synthesis of small organic molecules libraries, full spectroscopic characterization
	and purification of the synthesized compound
	<ul> <li>Optimization and scale-up of the synthetic process of the identified lead compound</li> </ul>

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.



### EDUCATION



#### **TECNICHAL SKILLS**

- Substantial experience in practical synthetic organic chemistry and standard organic synthesis bench techniques
- Expertise in small/medium-scale synthesis of organic molecules
- ✓ Solid-phase peptide synthesis techniques
- Purification and characterization techniques (HPLC, silica gel column chromatography, NMR, 2D NMR, Mass spectroscopy, IR spectroscopy, UV/Vis)
- ✓ Full Knowledge of chemistry-related software (Chemdraw, Top spin, Mestrenova)
- ✓ Skilled in the use of synthetic database searching softwares (Reaxys, SciFinder)

#### SOFT SKILLS

- ✓ Creative problem-solving and strategic thinking
- ✓ Excellent time and resources management with the ability to work as member of a team as well as independently
- ✓ Experience in working as part of a multidisciplinary research team.
- ✓ Flexibility and adaptability to all challenging situations
- ✓ Determination and persistence to achieve goals and scientific excellence
- Strong comunication and presentation skills
- ✓ Fluent oral and written english

In compliance with the Italian Legislative Decree no. 196 dated 30/06/2003, I hereby authorize the recipient of this document to use and process my personal details for the purpose of recruiting and selecting staff and I confirm to be informed of my rights in accordance to art. 7 of the above mentioned decree.